

sub 12
B2
9. (Amended) The method according to claim 1, wherein the step of contacting comprises sewing a substrate strip containing linked multiple electrode pairs to the epicardial surface of the heart.

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12. (Amended) A device for treating a heart to obtain gap junctional remodeling, comprising a substrate having linked multiple electrode pairs for contacting an epicardial surface of a heart and a pacemaker for delivering periodic pacemaker electrical signals to the epicardial surface through said electrode pairs, to remodel gap junctions in the heart.

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20. (Amended) A method of treating a heart to alter the effective refractory period, comprising contacting linked multiple electrode pairs to an epicardial surface of a heart, and connecting the electrode pairs to a pacemaker to apply periodic electrical signals to the epicardial surface, said signals being applied for a sufficient time and having characteristics sufficient to alter the effective refractory period of the heart.

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24. (Amended) The method according to claim 20, wherein the step of contacting comprises contacting linked multiple electrode pairs to the epicardial surface of the heart, wherein the linked multiple electrode pairs are arranged in two columns with one electrode in each pair in one column, and the other electrode in each pair in the other column.

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28. (Amended) The method according to claim 20, wherein the step of contacting comprises sewing a substrate strip containing linked multiple electrode pairs to the epicardial surface of the heart.

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31. (Amended) A device for treating a heart to alter the effective refractory period, comprising a substrate having linked multiple electrode pairs for contacting an epicardial surface of a heart and a pacemaker for delivering periodic pacemaker electrical

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signals to the epicardial surface through said electrode pairs, to alter the effective refractory period in the heart.

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33. (Amended) The method according to claim 39, wherein the step of contacting comprises contacting linked multiple electrode pairs to the epicardial surface of the heart, wherein the linked multiple electrode pairs are arranged in two columns with one electrode in each pair in one column, and the other electrode in each pair in the other column.

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34. (Amended) The method according to claim 39, wherein the step of contacting comprises sewing a substrate strip containing linked multiple electrode pairs to the epicardial surface of the heart.

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35. (Amended) A device for treating a heart to induce ion channel remodeling, comprising a substrate having linked multiple electrode pairs for contacting an epicardial surface of a heart and a pacemaker for delivering periodic pacemaker electrical signals to the epicardial surface through said electrode pairs, to induce ion channel remodeling in the heart.

Please add new claims 58, 59 and 60 as follows:

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58. A device for treating a heart to obtain gap junctional remodeling, comprising a substrate having linked multiple electrode pairs for contacting an epicardial surface of heart and for delivering periodic pacemaker signals to the epicardial surface through said electrode pairs, to remodel gap junctions in the heart, wherein the electrode pairs are arranged in two columns with one electrode in each pair in one column, and the other electrode in each pair in the other column.

59. A device for treating a heart to alter the effective refractory period comprising a substrate having linked